

# Transmission Report



[REDACTED]  
Date of Birth: [REDACTED]  
Device: E110 [REDACTED] Defibrillator  
Communicator Model/SN: 6299/[REDACTED]

### Summary

Reviewed As: Implanted device has recorded episodes in past 72 hrs. No out of range measurements observed.

Notes: Patient name: [REDACTED] Anti-Tachycardia Pacing and Shock(s) delivered in past 72 hrs. Detected in VF zone, rate >200 bpm. Rhythm converted. Normal follow-up recommended with device following physician.

Interrogation Date: Aug [REDACTED], 2014 01:17 EDT

Transmission Date: Aug [REDACTED], 2014 00:21 EDT

### Contact Information

Treating Clinician: Dr. [REDACTED]

Reason For Transmission: Evaluation: report of shock

Location Name: [REDACTED] REGIONAL MEDICAL CENTER

Location Type: ER

Caller Name: Dr. [REDACTED]

Caller Phone: [REDACTED]

### Registered Information

Communicator Model/SN: 6299/[REDACTED]

Location Name: [REDACTED] REGIONAL MEDICAL CENTER

Location Type: ER

Address: [REDACTED]  
[REDACTED]

Phone: [REDACTED]

### Disclaimer

- The Boston Scientific Transmission Report is based solely upon a review of the reports transmitted at a specific point in time by the LATITUDE Consult™ Communicator at the point of care facility, which can include up to 12 months of device/lead trend data and most recent 72 hours of stored episodes prior to interrogation.
- The Boston Scientific Transmission Report is focused on information generated by the implanted system and is intended to convey status of the implanted system. It is not a patient diagnosis. The report should not be considered as medical advice, and the attending health care professional is solely responsible for the degree of care, skill, adequacy, effectiveness and manner of use of this report in the care and treatment of patients. Boston Scientific is not a provider of patient health care services by virtue of the provision of this report.
- A transmission review of "Further review recommended" indicates that further review may be appropriate, which may include consulting with the patient's cardiac physician and/or interrogating the device with a Boston Scientific programmer to enable further analysis.
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## Quick Notes Report



Date of Birth: ■■■■■  
 Device: **TELIGEN 100 E110** ■■■■■  
 Clinic: ■■■■■ **REGIONAL MEDICAL CE**  
 Tachy Mode: **Monitor + Therapy**

Latest Device Transmission: **Aug ■, 2014 01:17 EDT**  
 Last Office Interrogation: **May ■, 2014**  
 Implant Date: ■■■■■, 2012

### Status Messages (Aug ■, 2014 01:17 EDT)

⚠ Ventricular shock therapy delivered to convert arrhythmia.

### Events Since Last Reset (May ■, 2014)

Jul 31, 2014 20:22 ⚠ VF at 233 bpm, ATPx1, 41J  
 Jul 30, 2014 18:05 VF at 224 bpm, ATPx1

### Battery OK

Approximate time to explant: **10.5 years** from Aug ■, 2014

Last Capacitor Re-form  
 Charge Time

Jul 31, 2014 20:22  
 8.9 s

One Year Remaining



Leads	Implant (■■■■■, 2012)	Most Recent In-Office Measurement (May ■, 2014)	Most Recent Daily Measurement (Jul ■, 2014)
<span style="color: blue;">●</span> <b>Atrial</b>			
Intrinsic Amplitude	1.0 mV	1.6 mV	2.2 mV
Pace Impedance	400 Ω	323 Ω	341 Ω
Pace Threshold	0.6 V @ 0.5 ms	1.4 V @ 0.5 ms	
<span style="color: magenta;">■</span> <b>Ventricular</b>			
Intrinsic Amplitude	>25.0 mV	>25.0 mV	>25.0 mV
Pace Impedance	550 Ω	554 Ω	572 Ω
Pace Threshold	0.5 V @ 0.5 ms	0.7 V @ 0.5 ms	
<span style="color: green;">■</span> <b>Shock</b>			
Shock Impedance	60 Ω	79 Ω	80 Ω

### Brady Counters

Since Last Reset  
 May ■, 2014

Atrial 0 % Paced  
 Ventricular 1 % Paced

### Settings

#### Ventricular Tachy

VF 200 bpm ATP 41 J, 41 J, 41 Jx6  
 VT 170 bpm Scan ATP2 Off 41 J, 41 J, 41 Jx4

#### Atrial Tachy

ATR Mode Switch 170 bpm DDIR

#### Brady

Mode DDD  
 Lower Rate Limit 40 ppm  
 Maximum Tracking Rate 130 ppm  
 Maximum Sensor Rate 130 ppm  
 Paced AV Delay 280 - 300 ms  
 Sensed AV Delay 280 - 300 ms  
 A-Refractory (PVARP) 180 - 280 ms  
 V-Refractory (VRP) 230 - 250 ms

#### Pacing Output

● **Atrial** 3.0 V @ 0.5 ms  
■ **Ventricular** 2.0 V @ 0.5 ms

#### Sensitivity

● **Atrial** AGC 0.25 mV  
■ **Ventricular** AGC 0.6 mV

#### Leads Configuration (Pace/Sense)

● **Atrial** Bipolar  
■ **Ventricular** Bipolar

#### Sensor

Accelerometer ATR Only

# Combined Follow-Up Report



Date of Birth: ■■■■■  
 Device: **TELIGEN 100 E110**, ■■■■■  
 Clinic: ■■■■■ REGIONAL MEDICAL CE  
 Tachy Mode: **Monitor + Therapy**

Latest Device Transmission: **Aug ■, 2014 01:17 EDT**  
 Last Office Interrogation: **May ■, 2014**  
 Implant Date: ■■■■■, 2012

### Status Messages (Aug ■, 2014 01:17 EDT)

⚠ Ventricular shock therapy delivered to convert arrhythmia.

### Events Since Last Reset (May ■, 2014)

Jul 31, 2014 20:22 ⚠ VF at 233 bpm, ATPx1, 41J  
 Jul 30, 2014 18:05 VF at 224 bpm, ATPx1

### Battery OK

Approximate time to explant: **10.5 years** from Aug ■, 2014

Last Capacitor Re-form

Charge Time

Jul 31, 2014 20:22  
 8.9 s

One Year Remaining



See last page for additional battery information.

Leads	Implant (■■■■■ 2012)	Most Recent In-Office Measurement (May ■, 2014)	Most Recent Daily Measurement (Jul ■, 2014)
<span style="color: blue;">●</span> <b>Atrial</b>			
Intrinsic Amplitude	1.0 mV	1.6 mV	2.2 mV
Pace Impedance	400 Ω	323 Ω	341 Ω
Pace Threshold	0.6 V @ 0.5 ms	1.4 V @ 0.5 ms	
<span style="color: magenta;">■</span> <b>Ventricular</b>			
Intrinsic Amplitude	>25.0 mV	>25.0 mV	>25.0 mV
Pace Impedance	550 Ω	554 Ω	572 Ω
Pace Threshold	0.5 V @ 0.5 ms	0.7 V @ 0.5 ms	
<span style="color: green;">●</span> <b>Shock</b>			
Shock Impedance	60 Ω	79 Ω	80 Ω

### Settings

#### Ventricular Tachy

VF 200 bpm  
 VT 170 bpm

ATP

Scan

41 J, 41 J, 41 Jx6

41 J, 41 J, 41 Jx4

#### Atrial Tachy

ATR Mode Switch 170 bpm

DDIR

#### Pacing Output

● **Atrial**

3.0 V @ 0.5 ms

■ **Ventricular**

2.0 V @ 0.5 ms

#### Brady

Mode DDD  
 Lower Rate Limit 40 ppm  
 Maximum Tracking Rate 130 ppm  
 Maximum Sensor Rate 130 ppm  
 Paced AV Delay 280 - 300 ms  
 Sensed AV Delay 280 - 300 ms  
 A-Refractory (PVARP) 180 - 280 ms  
 V-Refractory (VRP) 230 - 250 ms

#### Sensitivity

● **Atrial**

AGC 0.25 mV

■ **Ventricular**

AGC 0.6 mV

#### Leads Configuration (Pace/Sense)

● **Atrial**

Bipolar

■ **Ventricular**

Bipolar

#### Sensor

Accelerometer

ATR Only

### Rhythm ID Update

Last Successful Completion

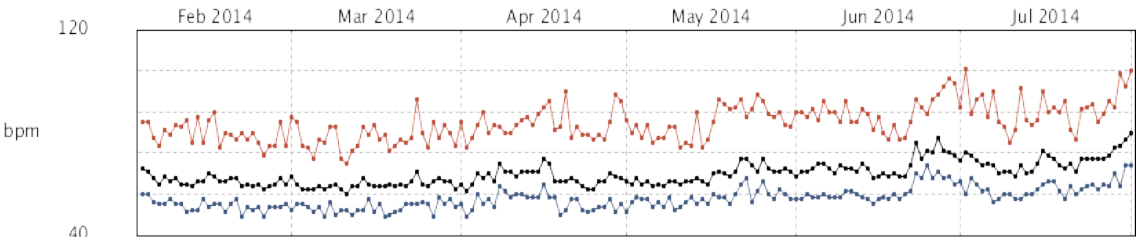
Jul ■, 2014 22:56

Trend Graphs

Most Recent Measurement: Jul 15, 2014

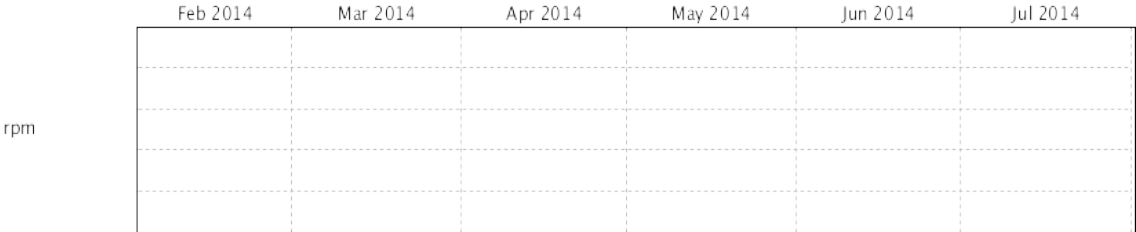
Heart Rate

Max  
Mean  
Min

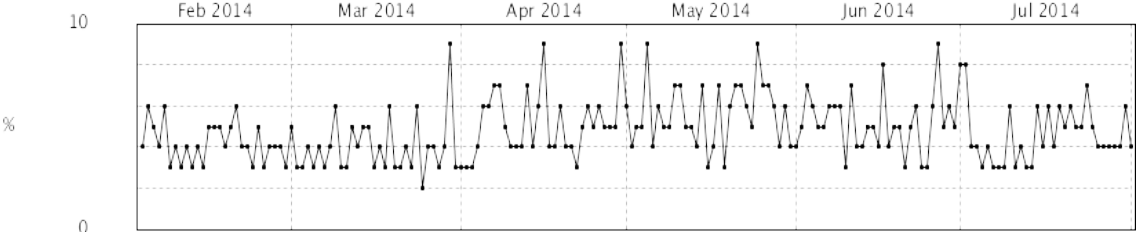


Respiratory Rate

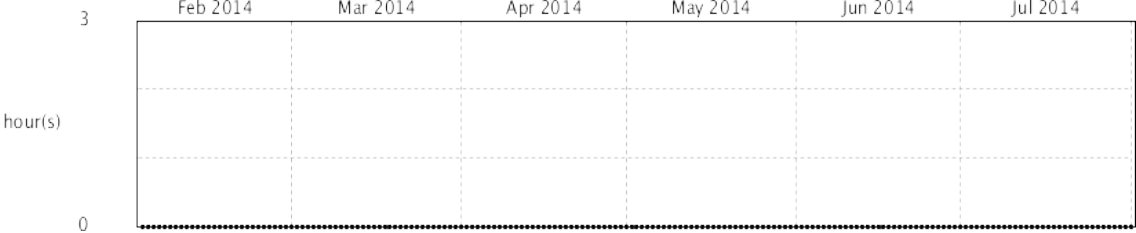
Max  
Median  
Min



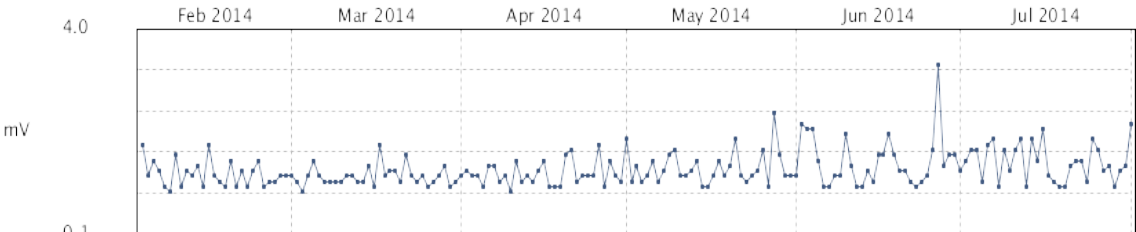
Activity Level



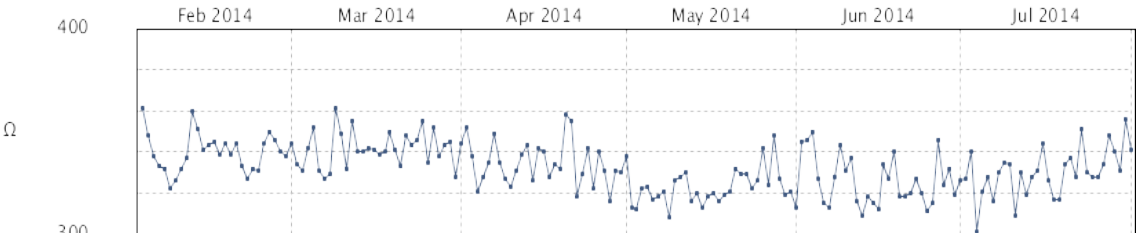
Atrial Burden



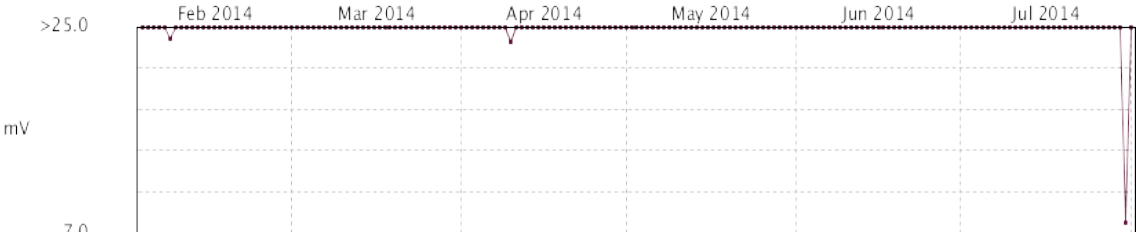
Atrial  
Intrinsic Amplitude



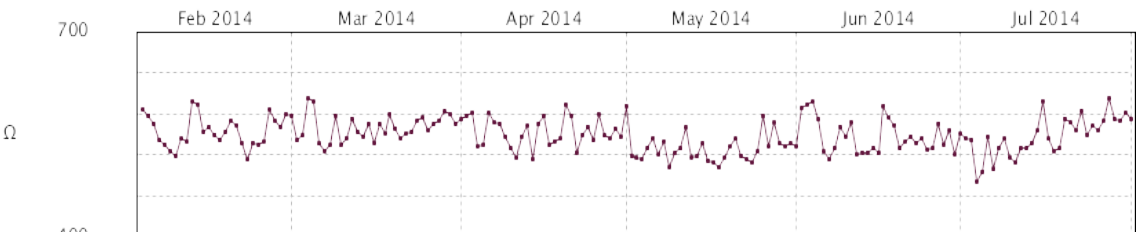
Atrial  
Pace Impedance



Ventricular  
Intrinsic Amplitude

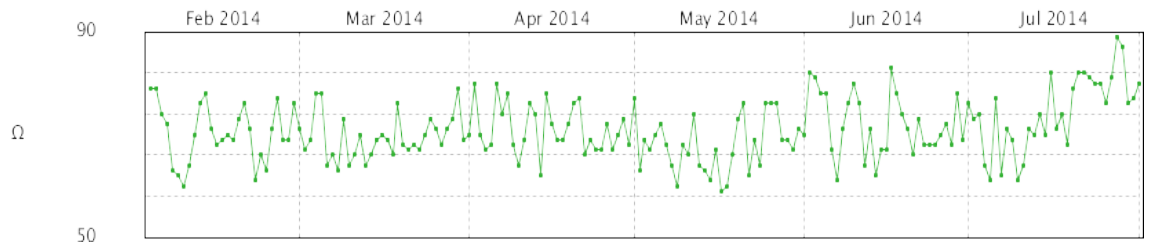


Ventricular  
Pace Impedance



## Shock

Shock Impedance



## Ventricular Tachy Counters

Since Last Reset  
May ■, 2014

Device Totals

## Ventricular Episode Counters

Total Episodes

2

6

## Treated



VF Therapy

2

3

VT Therapy

0

0

VT-1 Therapy

0

0

Commanded Therapy

0

0

## Non-Treated

No Therapy Programmed

0

0

NonsustainedV Episodes

0

3

Other Untreated Episodes

0

0

## Ventricular Therapy Counters

ATP Delivered

2

3

ATP % Successful

50

33

Shocks Delivered

1

3

First Shock % Successful

100

50

Shocks Diverted

1

1

## Brady Counters

Reset Before Last  
Sep ■, 2013Since Last Reset  
May ■, 2014

## Counters

% A Paced

0

0

% V Paced

7

1

## Intrinsic Promotion

AV Search

% Successful

0

0

Rate Hysteresis

% Successful

0

0

## Atrial Burden

Episodes by Duration

&lt; 1 minute

0

0

1 min - &lt; 1 hr

0

0

1 hr - &lt; 24 hr

0

0

24 hr - &lt; 48 hr

0

0

&gt; 48 hr

0

0

Total PACs

2223

1123

## Ventricular Counters

Total PVCs

216428

188778

Three or More PVCs

0

0



Histograms



## Histogram Rate Counts

Atrial	Reset Before Last Sep ■, 2013 to May ■, 2014		Since Last Reset May ■, 2014 to Aug ■, 2014	
	Paced	Sensed	Paced	Sensed
0-29	0	2	0	0
30-39	0	0	0	3
40-49	31	91.1K	1	824
50-59	0	6.6M	0	543.4K
60-69	0	12.4M	0	3.5M
70-79	0	3.7M	0	2.3M
80-89	0	604.3K	0	528.9K
90-99	22	98.0K	0	91.2K
100-109	0	16.8K	0	12.2K
110-119	0	3.7K	0	609
120-129	0	184	0	113
130-139	0	111	0	79
140-149	0	64	0	36
150-159	0	45	0	16
160-169	0	29	0	17
170-179	0	17	0	7
180-189	0	15	0	8
190-199	0	6	0	5
200-209	0	16	0	4
210-219	0	11	0	5
220-229	0	11	0	2
230-239	0	12	0	3
240-249	0	7	0	1
>=250	0	840	0	432

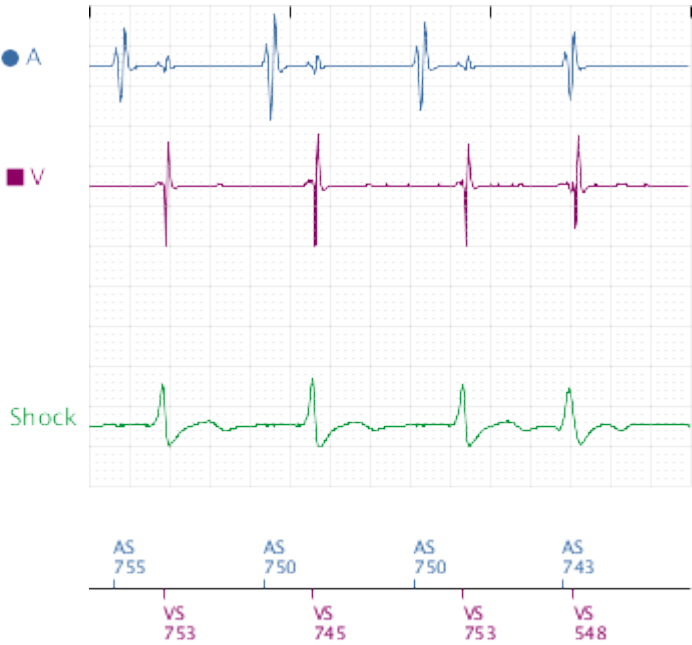
Ventricular	Reset Before Last Sep ■, 2013 to May ■, 2014		Since Last Reset May ■, 2014 to Aug ■, 2014	
	Paced	Sensed	Paced	Sensed
0-29	0	0	0	0
30-39	2	26	0	0
40-49	19.7K	242.6K	1.8K	91.8K
50-59	641.2K	6.0M	8.4K	632.3K
60-69	909.0K	11.2M	21.2K	3.3M
70-79	84.0K	3.5M	2.1K	2.1M
80-89	2.9K	625.9K	2.3K	489.5K
90-99	668	202.7K	1.7K	136.9K
100-109	388	119.9K	1.3K	161.1K
110-119	211	27.8K	863	54.9K
120-129	17	8.9K	20	17.4K
130-139	0	4.3K	0	8.3K
140-149	0	1.6K	0	3.2K
150-159	0	399	0	652
160-169	0	125	0	137
170-179	0	36	0	55
180-189	0	5	0	22
190-199	0	2	0	6
200-209	0	0	0	3
210-219	0	0	0	6
220-229	0	0	0	38
230-239	0	0	0	10
240-249	0	0	0	0
>=250	0	0	14	0

Presenting EGM (Aug 12, 2014)

EGM displayed at 25mm per second







Battery (Continued)

Last Delivered Shock	Jul 31, 2014 20:22	Time Since Implant	22 months
Energy	41 J	Charge Remaining	1.52 ampere-hours
Charge Time	8.9 s	Power Consumption	35 $\mu$ W
Shock Impedance	68 $\Omega$	(Measured with programmed parameters)	
Beep when Explant is Indicated	On	This device is using 78% of the power it would use at the following parameters:	
		<div><div></div> A</div>	100% pacing, 60 ppm, 2.5 V, 0.4 ms, 500 $\Omega$
		<div><div></div> V</div>	100% pacing, 60 ppm, 2.5 V, 0.4 ms, 700 $\Omega$

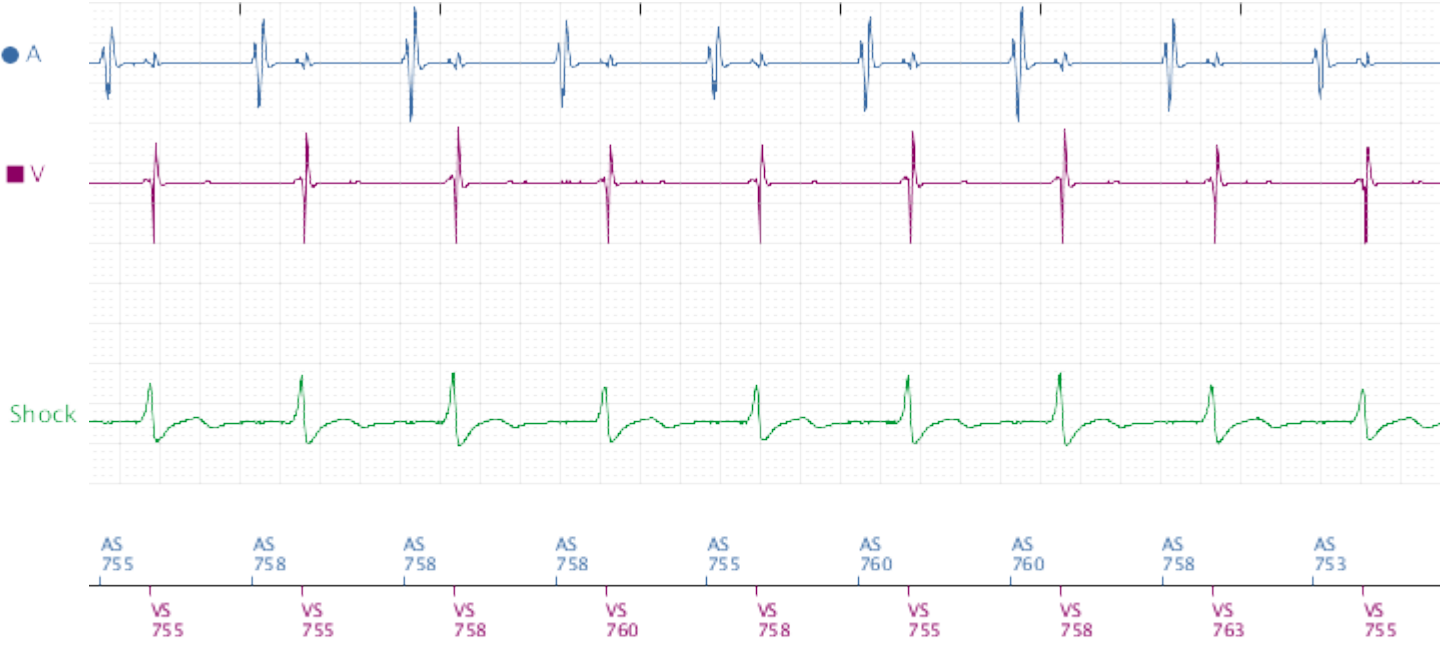
# Presenting Electrogram Report



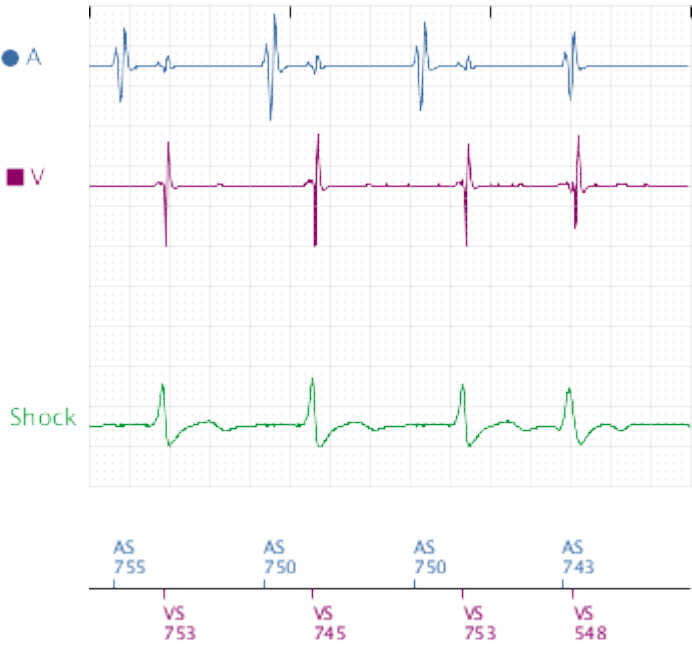
Date of Birth: [REDACTED]  
Device: **TELIGEN 100 E110**, [REDACTED]  
Clinic: [REDACTED] **REGIONAL MEDICAL CE**  
Tachy Mode: **Monitor + Therapy**

Latest Device Transmission: **Aug 1, 2014 01:17 EDT**  
Last Office Interrogation: **May 1, 2014**  
Implant Date: [REDACTED] **2012**

**Presenting EGM (Aug 1, 2014)****EGM displayed at 25mm per second**







# Arrhythmia Logbook Report



Date of Birth: ■■■■■■

Latest Device Transmission: Aug ■, 2014 01:17 EDT

Device: TELIGEN 100 E110/■■■■■

Last Office Interrogation: May ■, 2014





Clinic: ■■■■■ REGIONAL MEDICAL CE

Implant Date: ■■■■ 2012

Tachy Mode: Monitor + Therapy

Events Since: Implant

Maximum of 250 episodes shown

Event	Date/Time	Type	Therapy	Duration hh:mm:ss
 V-6	Jul 31, 2014 20:22	VF	 ATPx1, 41J	00:00:45
 V-5	Jul 30, 2014 18:05	VF	ATPx1	00:00:18
V-4	Dec 20, 2013 12:44	NonSustV	Nonsustained	00:00:09
V-3	Dec 03, 2013 17:52	NonSustV	Nonsustained	00:00:07
V-2	Oct 21, 2012 11:15	VF	 ATPx1, 41J, 41J	00:01:00
V-1	Oct 20, 2012 18:53	NonSustV	Nonsustained	00:00:10

# Event Detail / Episodes Report

(first)



Date of Birth: [REDACTED]  
Device: **TELIGEN 100 E110**, [REDACTED]  
Clinic: [REDACTED] **REGIONAL MEDICAL CE**  
Tachy Mode: **Monitor + Therapy**

Latest Device Transmission: **Aug 1, 2014 01:17 EDT**  
Last Office Interrogation: **May 1, 2014**  
Implant Date: [REDACTED] **2012**

V-5: Jul 30, 2014 18:05, VF, A Rate: 86 bpm, V Rate: 224 bpm

## Detail

### VF Event Onset

Avg A Rate 86 bpm  
Avg V Rate 224 bpm  
Detection Rhythm ID

### At V-Detect

Avg A Rate 86 bpm  
Avg V Rate 220 bpm  
Rate Zone VF  
Stability (3 ms, Off)  
V>A Rate (True, Off)  
AFib (False, Off)  
RhythmID Correlated False  
SRD Met (False, Off)  
ATP Timeout False

### Attempt 1, 41 J V Shock

Elapsed Time 00:00:03  
Aborted Attempt  
VF ATP delivered, no shock attempted due to fail to reconfirm

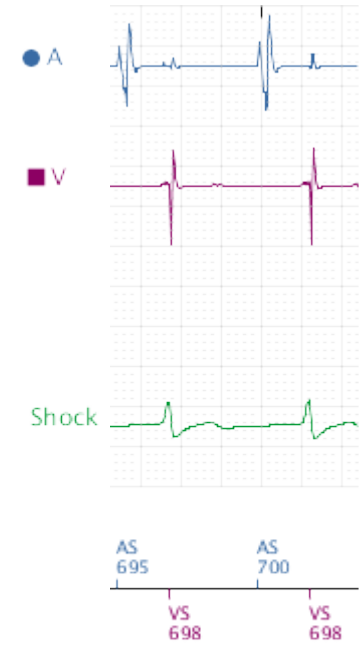
Event Ended

00:00:18

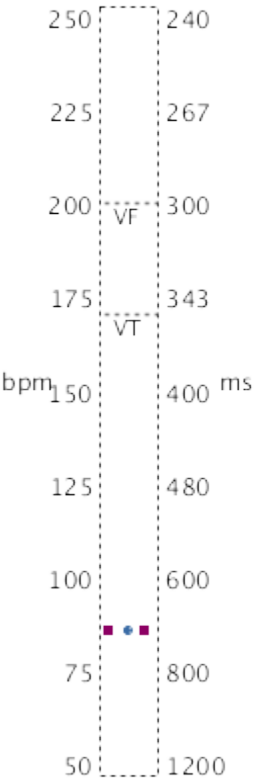
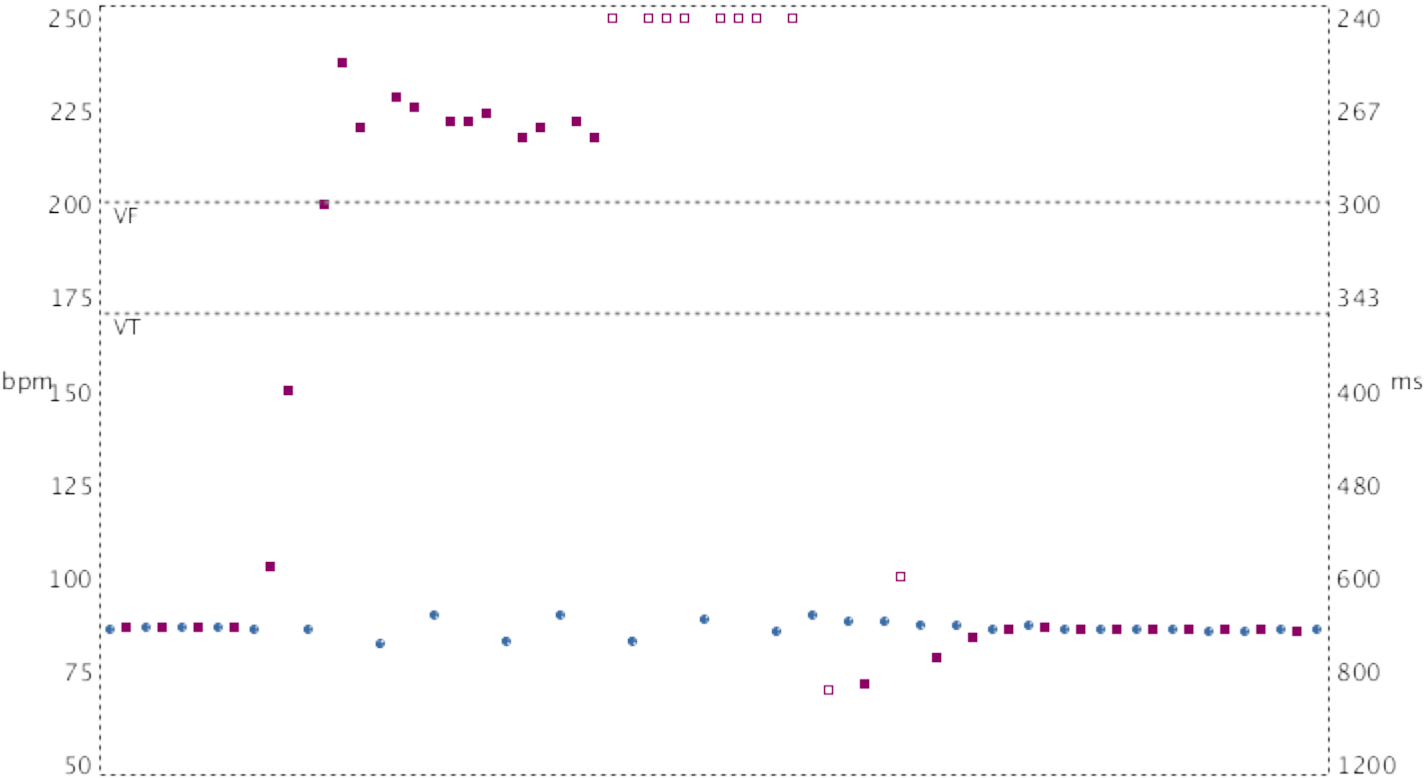
### EGM displayed at 25mm per second







↑ > V Range	↓ < V Range	■ V Sense	□ V Pace
↑ > A Range	↓ < A Range	● A Sense	○ A Pace





# Event Detail / Episodes Report

(second)



Date of Birth: ■■■■■  
 Device: **TELIGEN 100 E110** ■■■■■  
 Clinic: ■■■■■ **REGIONAL MEDICAL CE**  
 Tachy Mode: **Monitor + Therapy**

Latest Device Transmission: **Aug ■, 2014 01:17 EDT**  
 Last Office Interrogation: **May ■, 2014**  
 Implant Date: ■■■■■ **2012**

V-6: Jul 31, 2014 20:22, VF, A Rate: 94 bpm, V Rate: 233 bpm

## Detail

### VF Event Onset

Avg A Rate	94 bpm
Avg V Rate	233 bpm
Detection	Rhythm ID

### At V-Detect

Avg A Rate	94 bpm
Avg V Rate	229 bpm
Rate Zone	VF
Stability	(1 ms, Off)
V>A Rate	(True, Off)
AFib	(False, Off)
RhythmID Correlated	False
SRD Met	(False, Off)
ATP Timeout	False

### Attempt 1, 41 J V Shock

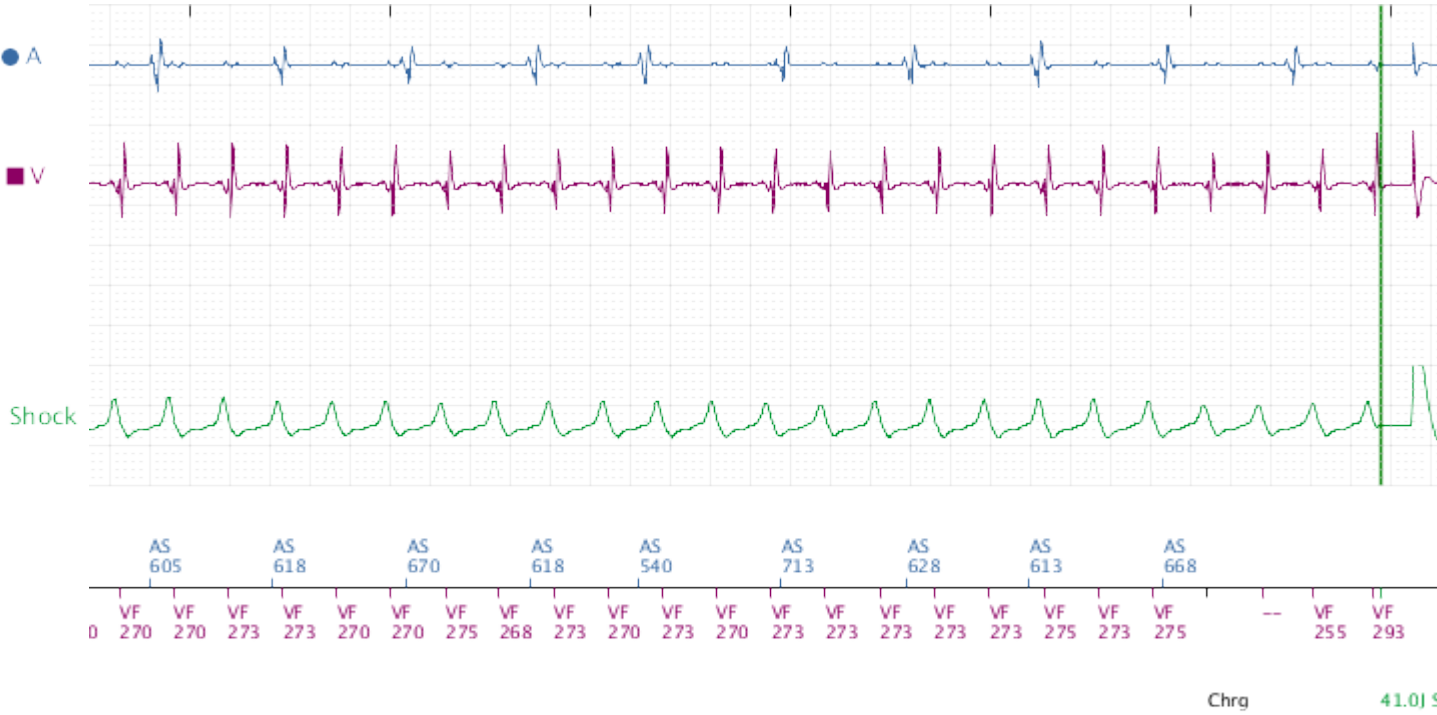
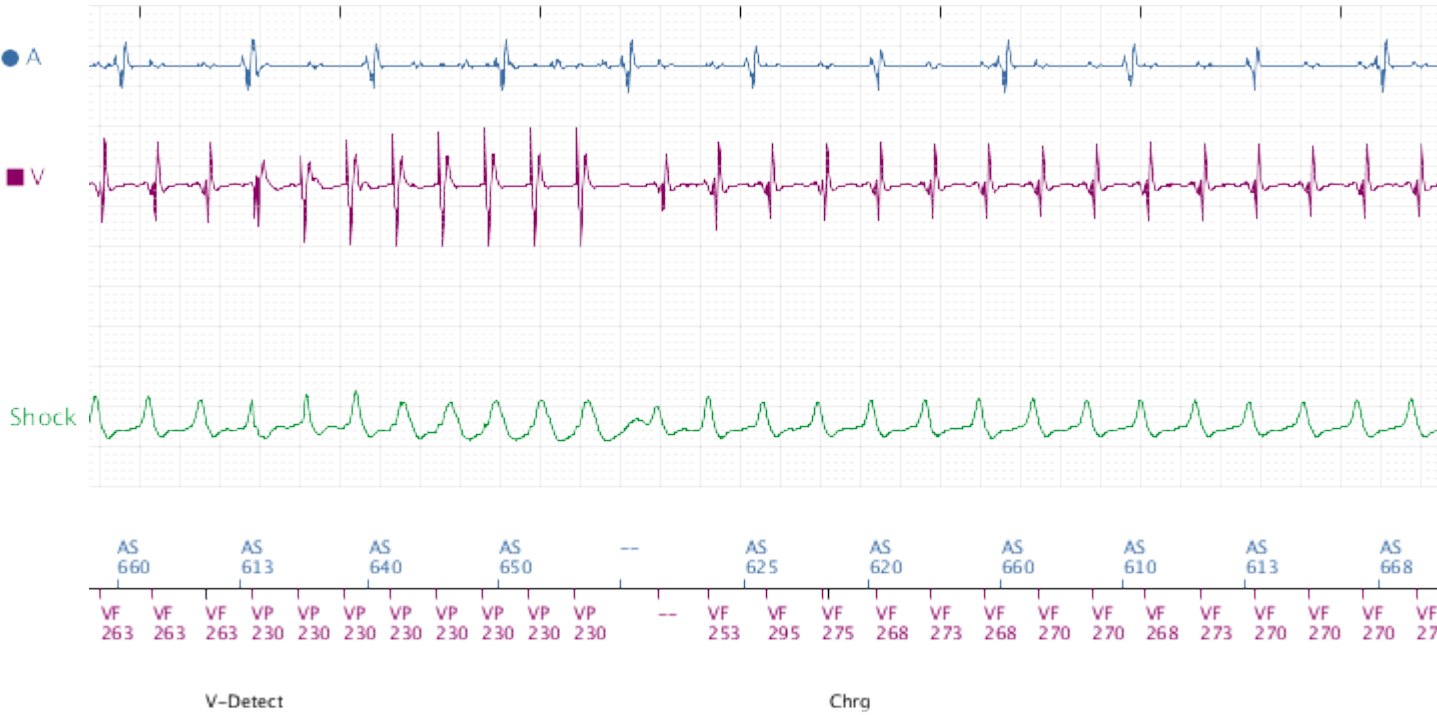
Elapsed Time	00:00:03
VF ATP delivered prior to shock	
Shock Information	
Charge Time	8.9 s
Lead Impedance	68 Ω
Lead Polarity	Initial

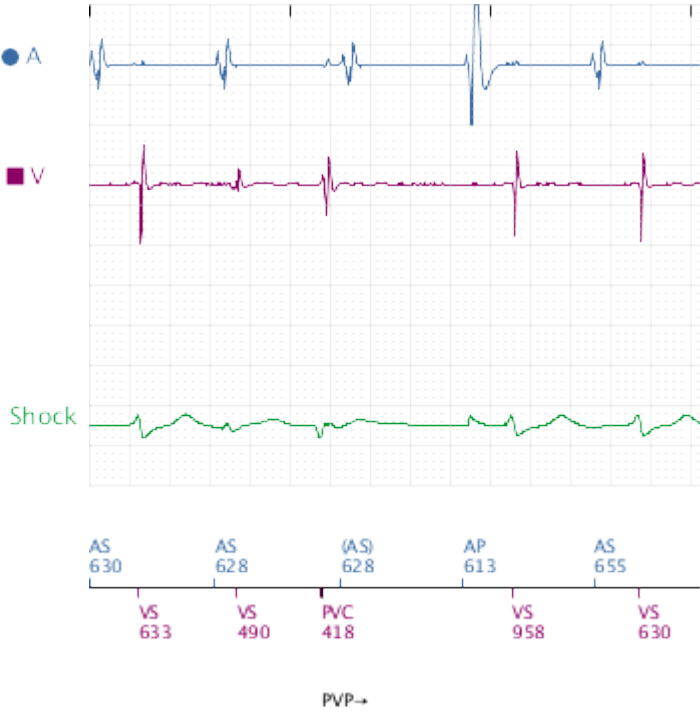
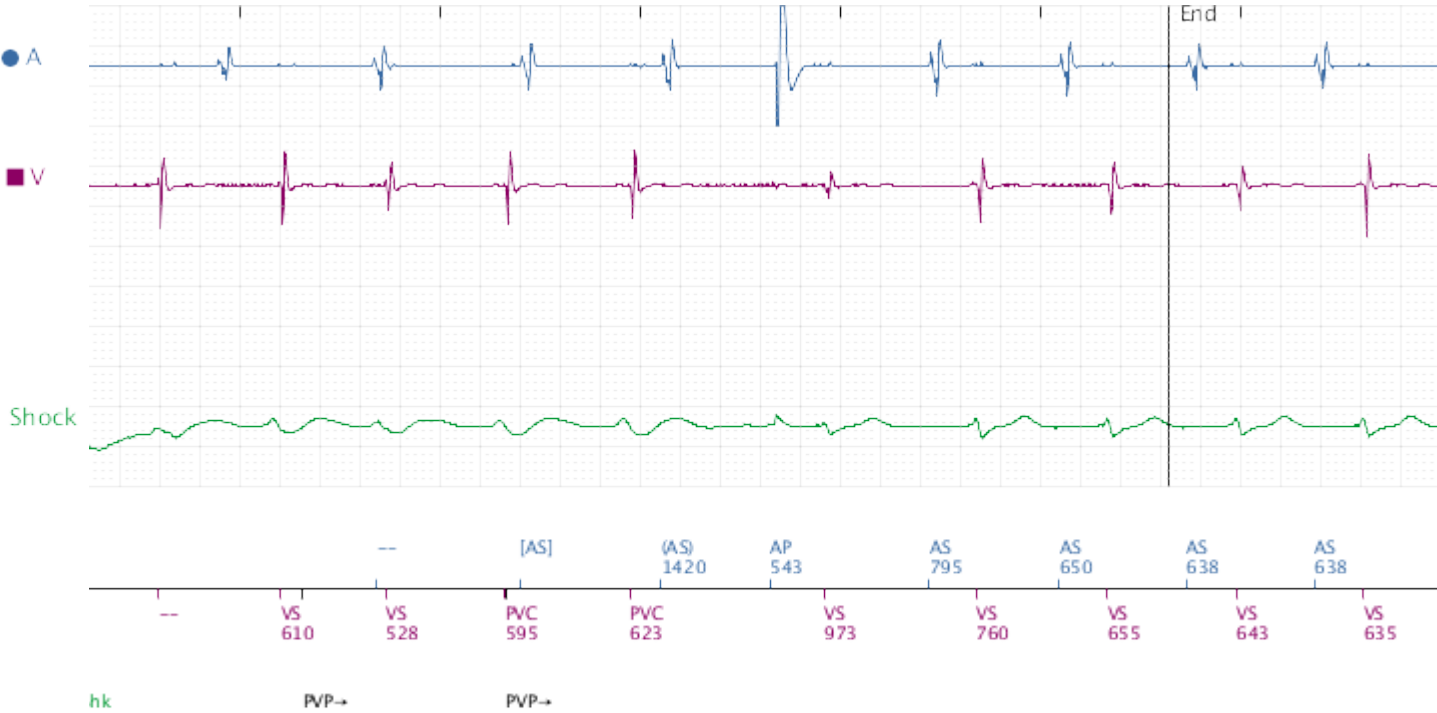
Event Ended

00:00:45

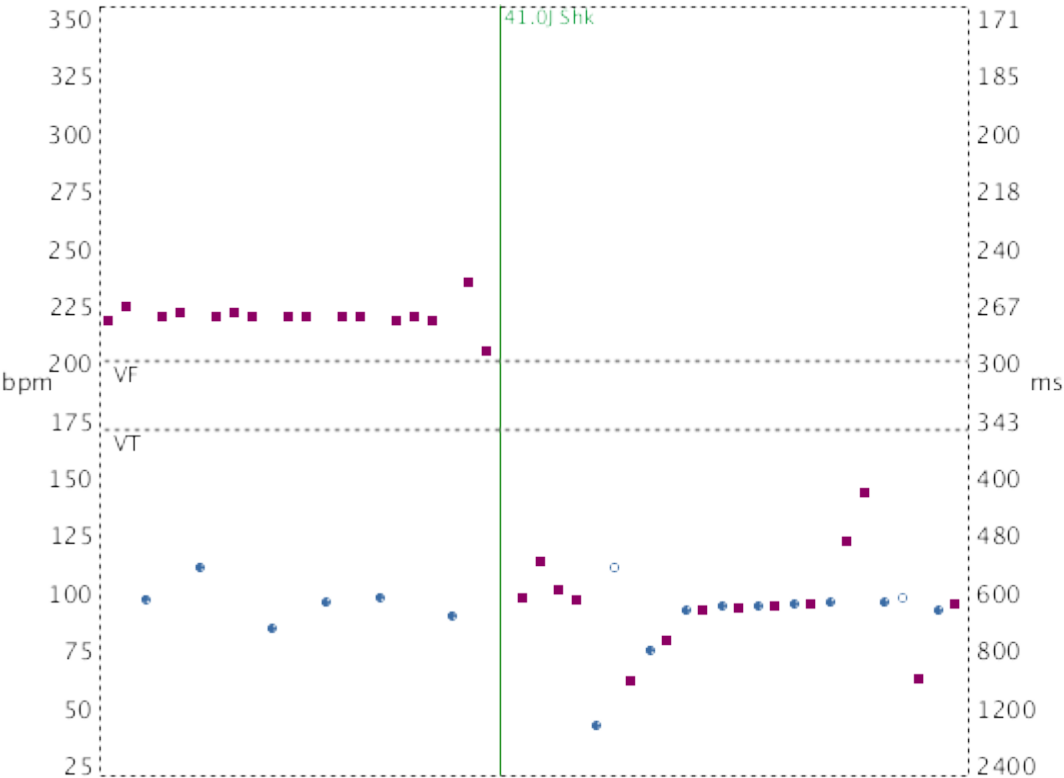
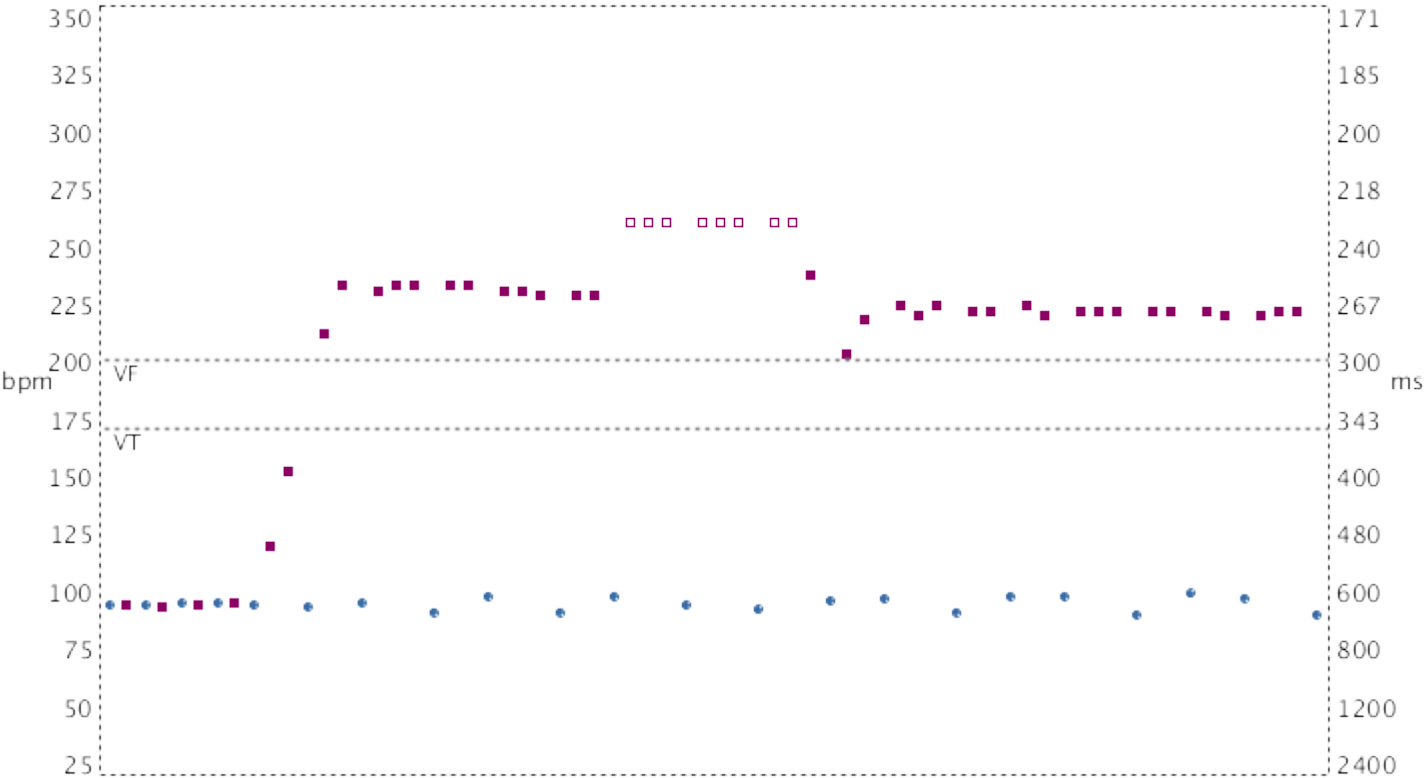
### EGM displayed at 25mm per second







↑ > V Range	↓ < V Range	■ V Sense	□ V Pace
↑ > A Range	↓ < A Range	● A Sense	○ A Pace



# Device Settings Report



Date of Birth: ■■■■■  
 Device: **TELIGEN 100 E110** ■■■■■  
 Clinic: ■■■■■ REGIONAL MEDICAL CE  
 Tachy Mode: **Monitor + Therapy**

Latest Device Transmission: **Aug ■, 2014 01:17 EDT**  
 Last Office Interrogation: **May ■, 2014**  
 Implant Date: ■■■■■ 2012

## Programming

Last Programmed

Feb ■, 2013

Ventricular Tachy Mode

■■■■■ 2012 Changed to Monitor + Therapy

■■■■■ 2012 Changed to Off

## Ventricular Tachy

### VF 200 bpm (300 ms)

#### Detection/Redetection

Initial Duration 1.0 s  
 Redetection Duration 1.0 s  
 Post-Shock Duration 1.0 s

#### Therapy

QUICK CONVERT™ ATP On  
 Shock 1 41 J  
 Shock 2 41 J  
 Additional 41 J Shocks 6

### VT 170 bpm (353 ms)

#### Detection/Redetection

Initial Duration 2.5 s  
 Redetection Duration 1.0 s  
 Post-Shock Duration 1.0 s

#### ATP1

Number of Bursts 3  
 Pulses per Burst  
 Initial 8  
 Increment 0  
 Coupling Interval 84 %  
 Decrement 0 ms  
 Burst Cycle Length 84 %  
 Ramp Decrement 0 ms  
 Scan Decrement 10 ms  
 Minimum Interval 220 ms

#### Scan

#### Enhancements

#### Rhythm ID

#### VT Detection

On

#### Initial Detection

On

Sustained Rate Duration 03:00 mm:ss

#### Post-Shock Detection

Off

#### Rhythm ID Setup

Passive Method On

Active Method On

Temporary LRL 40 ppm

#### ATP2

#### ATP Time-out

01:00 mm:ss

#### Common Parameters

Atrial Tachy Discrimination On  
 AFib Rate Threshold 170 bpm  
 Stability 20 ms

#### Shocks

Shock 1 41 J  
 Shock 2 41 J  
 Shock 3-6 41 J

### Ventricular Tachy Therapy Setup

#### ATP

Ventricular ATP Amplitude 7.5 V

Ventricular ATP Pulse Width 1.0 ms

#### Magnet and Beeper

Magnet Response Inhibit Therapy

Beep During Capacitor Charge Off

#### Shock (All Shocks)

Waveform Biphasic

Committed Shock Off

Lead Polarity Initial

Shock Lead Vector RV Coil to Can

## Atrial Tachy

### Therapy

#### ATR Mode Switch Details

ATR Mode Switch On  
 Trigger Rate 170 bpm  
 Duration 0 cycles  
 Entry Count 8 cycles  
 Exit Count 8 cycles  
 Fallback  
 Mode DDIR  
 Time 00:30 mm:ss  
 ATR/VTR Fallback LRL 70 ppm  
 Ventricular Rate Regulation On  
 Maximum Pacing Rate 130 ppm

#### Atrial Tachy Response

Atrial Flutter Response Off  
 PMT Termination On

Brady

Normal Settings

Mode	DDD	Pacing Output	
Lower Rate Limit	40 ppm	<div><div></div>Atrial</div>	3.0 V @ 0.5 ms
Maximum Tracking Rate	130 ppm	<div><div></div>Ventricular</div>	2.0 V @ 0.5 ms
Maximum Sensor Rate	130 ppm	Sensitivity	
Paced AV Delay	280 - 300 ms	<div><div></div>Atrial</div>	AGC 0.25 mV
Sensed AV Delay	280 - 300 ms	<div><div></div>Ventricular</div>	AGC 0.6 mV
A-Refractory (PVARP)	180 - 280 ms	Leads Configuration (Pace/Sense)	
V-Refractory (VRP)	230 - 250 ms	<div><div></div>Atrial</div>	
PVARP after PVC	400 ms	Pace	Bipolar
AV Search +	Off	Sense	Bipolar
Blanking		<div><div></div>Ventricular</div>	
A-Blank after V-Pace	Smart	Pace	Bipolar
A-Blank after V-Sense	Smart	Sense	Bipolar
V-Blank after A-Pace	65 ms	Sensor	
Noise Response	DOO	Accelerometer	ATR Only
Rate Enhancements		Response Factor	8
Rate Smoothing		Activity Threshold	Medium
Up	Off	Reaction Time	30 s
Down	Off	Recovery Time	2 min
Rate Hysteresis		Respiratory Sensor	Off
Hysteresis Offset	Off		

Post-Therapy Settings

Lower Rate Limit	60 ppm	Post Therapy Period	00:30 mm:ss
Output			
<div><div></div>Atrial</div>	5.0 V @ 1.0 ms		
<div><div></div>Ventricular</div>	7.5 V @ 1.0 ms		

Note: Post Therapy pacing uses the Brady Normal settings in combination with settings shown in this section.

Setup

Battery Setup

Beeper	
Beep when Explant is Indicated	On

Trending Setup

Recording Method	30 Second Average
Duration	25 hours
Data Storage	Continuous

Leads Status Setup

	Daily Intrinsic Amplitude	Daily Impedance	Impedance Limits	Beep When Out-of-Range
<div><div></div>Atrial</div>	On	On	200 - 2000 Ω	Off
<div><div></div>Ventricular</div>	On	On	200 - 2000 Ω	Off
Shock		On	20 - 125 Ω	Off